



UNITED STATES
PATENT AND
TRADEMARK OFFICE

JANUARY 31, 2002

FISH & RICHARDSON P.C.
LOUIS MYERS
225 FRANKLIN STREET
BOSTON, MASSACHUSETTS 02110-2804



Under Secretary of Commerce For Intellectual Property and
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Washington, DC 20231
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101952985A

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PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/17/2002

REEL/FRAME: 012349/0127
NUMBER OF PAGES: 5

BRIEF: DOCUMENT RE-RECORDED TO CORRECT ERRORS CONTAINED IN PROPERTY
NUMBER 09398620 DOCUMENT PREVIOUSLY RECORDED ON REEL 010847
FRAME 0196.

ASSIGNOR:
POLLOCK, DAN

DOC DATE: 04/11/2001

ASSIGNOR:
ECHELAND, YANN

DOC DATE: 04/06/2001

ASSIGNOR:
MEADE, HARRY M.

DOC DATE: **RECEIVED**

ASSIGNEE:
GENZYME TRANSGENICS CORPORATION
175 CROSSING BOULEVARD
POST OFFICE BOX 9322
FRAMINGHAM, MASSACHUSETTS
01701-
9322

FFB 07 2002

**FISH & RICHARDSON, PC
BOSTON OFFICE**

SERIAL NUMBER: 09398610
PATENT NUMBER:

FILING DATE: 09/17/1999
ISSUE DATE:

NO DOCKETING REQUIRED
Reviewed By Practice Systems
Initials <u>PEC</u> On <u>PL</u>

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

MPD
1/17/02
01-30-2002

REC

ET



101952985

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): Dan Pollock, Yann Echelard and Harry M. Meade Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Genzyme Transgenics Corporation 175 Crossing Boulevard Post Office Box 9322 Framingham, MA 01701-9322
3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input checked="" type="checkbox"/> Other: Corrective of 010847/0196, Serial 09/398,620 Execution Date: 04/06/00; 04/11/00	Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/398,610	B: Patent No(s):
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.
8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.	
DO NOT USE THIS SPACE <i>Fee OK</i>	
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>	
Laurie Butler Lawrence Reg. No. 46,583 Name of Person Signing	 Signature <i>1/17/02</i> Date
Total number of pages including coversheet, attachments and document:	

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CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

1/17/02
Date of Transmission

[Signature]
Signature

Terri L. Knox
Typed Name of Person Signing Certificate



06-16-2000



101382243

Substitute Form PTO-1595
Attorney Docket No.: 10275-137001

2 SHEET

S-31-00

Assistant Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies):

Dan Pollock, Yann Echelard and Harry M. Meade

Additional name(s) attached? Yes No

3. Nature of conveyance:

- Assignment
- Merger
- Security Agreement
- Change of Name
- Other

Execution Date: 04/06/00 and 04/11/00

2. Name and address of receiving party(ies):

Genzyme Transgenics, Inc.
Five Mountain Road
Framingham, MA 01701-9322Additional names/addresses attached? Yes No

4. Application number(s) or patent number(s): 09/398,620

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No(s):

B: Patent No(s):

Additional numbers attached? Yes No

5. Name/address of party to whom correspondence concerning document should be mailed:

P. LOUIS MYERS
Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR §3.41): \$40

- Enclosed
- Authorized to charge Deposit Account.

8. Deposit Account No.: 06-1050

Please apply any additionally charges, or any credits, to our Deposit Account No. 06-1050.

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9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Lauranne Butler
Reg. No. P46,593
Name of Person SigningLauranne Butler

Signature

5/26/00
Date

Total number of pages including coversheet, attachments and document: 4

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06/15/2000 ASCOTT 00000140 09398620

01 FC:581

40.00 OP

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

May 26, 2000

Lauranne Butler

Signature

Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, we, Dan Pollock of Medway, MA; Yann Echelard of Jamaica Plain, MA; and Harry M. Meade of Newton, MA, hereby assign to Genzyme Transgenics, Inc., a Massachusetts corporation having a place of business at: Five Mountain Road, Framingham, MA 01701-9322, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled **TRANSGENICALLY PRODUCED FUSION PROTEINS**, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and we authorize and request the attorneys appointed in said application to hereafter complete his assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at One Mountain Road Franklin
this 11 day of April, 2000
Dan Pollock
Dan Pollock

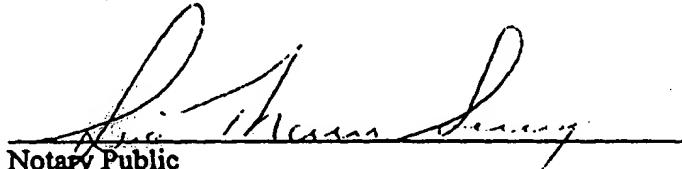
L.S.

State of Massachusetts:

: ss.

County of Middlesex :

Before me this 11 day of April, 2000, personally appeared
Dan Pollock, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.


Notary Public

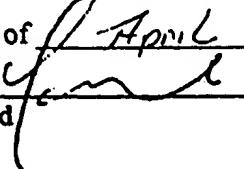
My Commission Expires:

USA MARIE SEAVEY
Notary Public

My Comm. Expires Dec. 13, 2002

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at 175 Crossing Blvd., Franklin MA
this 11 day of April, 2000


Yann Echelard

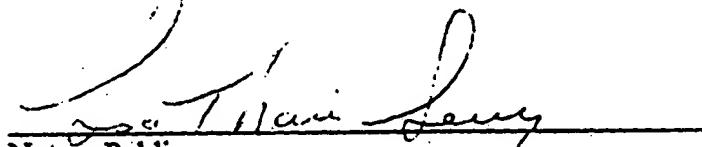
L.S.

State of Massachusetts:

: ss.

County of Middlesex :

Before me this 6 day of April, 2000, personally appeared Yann Echelard, known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.


Lisa Marie Steavley
Notary Public

My Commission Expires:

LISA MARIE STEAVLEY
Notary Public
My Comm. Expires Dec. 13, 2007

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at One Mountain Road Freeport,
this 11 day of April, 2000

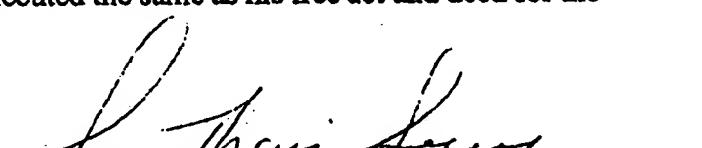
Harry M. Meade _____ L.S.
Harry M. Meade.

State of Maine :

: ss.

County of Penobscot :

Before me this 11 day of April, 2000, personally appeared Harry M. Meade, known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.


Lisa Marie Steavley
Notary Public

My Commission Expires:

LISA MARIE STEAVLEY
Notary Public
My Comm. Expires Dec. 13, 2007

[Notary's Seal Here]+



PLM
GLF

APRIL 25, 2002

PTAS

10275-137001
Commissioner for Trademarks
Arlington, VA 22202-3513
www.uspto.gov

FISH & RICHARDSON P.C.
LOUIS MYERS
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BOSTON, MA 02110-2804



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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0047
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RYBAK, SUSANNA M.

DOC DATE: 04/06/2000

ASSIGNEE:

UNITED STATES OF AMERICA, AS
REPRESENTED BY THE SECRETARY OF
HEALTH AND HUMAN SERVICES
OFFICE OF TECHNOLOGY TRANSFER
6011 EXECUTIVE BLVD., SUITE 325
ROCKVILLE, MARYLAND 20852-3804

SERIAL NUMBER: 09398610

FILING DATE: 09/17/1999
PATENT NUMBER:

ISSUE DATE:

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Substitut Form PTO-1595
Attorney Docket No.: 10275-137001MRD
2-12-02

RECOI



102003322

Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies):

Dr. Susanna M. Rybak

Additional name(s) attached? Yes No

3. Nature of conveyance:

Assignment
 Merger
 Security Agreement
 Change of Name
 Other:

Execution Date: 04/06/2000

2. Name and address of receiving party(ies):

United States of America, as represented by The
 Secretary of Health and Human Services
 Office of Technology Transfer
 Suite 325
 6011 Executive Blvd.
 Rockville, MD 20852-3804

Additional names/addresses attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No(s):

09/398,610

B: Patent No(s):

FEB 12 2002

Additional numbers attached? Yes No

5. Name/address of party to whom correspondence concerning document should be mailed:

LOUIS MYERS
 Fish & Richardson P.C.
 225 Franklin Street
 Boston, Massachusetts 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR §3.41): \$40

Enclosed
 Authorized to charge Deposit Account.

8. Deposit Account No.: 06-1050

Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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9. Statement and Signature: *To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Laurie Butler Lawrence

Reg. No. 46,593

Name of Person Signing

Signature

1/17/02

Date

Total number of pages including coversheet, attachments and document: 3

20371937.doc

03/06/2002 GTOH11 00000211 09398610

01 FC:581

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1/17/02
 Date of Deposit Signature

Terri L. Knox
 Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, I, Susanna M. Rybak, of, Frederick, MD, hereby assign to the government of the United States of America as represented by the Secretary of the Department of Health and Human Services, (hereinafter, THE GOVERNMENT) and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at FCRDE
this 6 day of April, 2000

Susanna M. Rybak

L.S.

State of Maryland :
: ss.

County of Frederick :

Before me this 6 day of April, 2000, personally appeared
Susanna M. Rybak, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that she executed the same as her free act and deed for the
purposes therein contained.

Anne E. Rogers
Notary Public

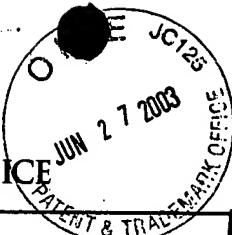
My Commission Expires: 04/01/10

[Notary's Seal Here]

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UNITED STATES
PATENT AND
TRADEMARK OFFICE



APRIL 17, 2003

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2255 FRANKLIN STREET
BOSTON, MA 02110-2804

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ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/11/2002

REEL/FRAME: 013575/0931

NUMBER OF PAGES: 4

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE NAME OF THE ASSIGNEE FILED
ON 02/12/02. RECORDED ON REEL 012624 FRAME 0041. ASSIGNOR HEREBY
CONFIRMS THE ENTIRE INTEREST.

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 07/24/2002

ASSIGNEE:

ASTRAZENECA UK LIMITED
15 STANHOPE GATE
LONDON W1Y 6LN, UNITED KINGDOM

SERIAL NUMBER: 09396610

FILING DATE: 09/15/1999

PATENT NUMBER:

ISSUE DATE:

DOROTHY RILEY, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



12-18-2002



102314488

Substitute Form PTO-1595
Attorney Docket No.: 10275-137001
Client's Ref. No.: GTC-42

SHEET

C

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
<p>1. Name of conveying party(ies): Michael D. Edge <i>12-11-02</i> Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input checked="" type="checkbox"/> Other: Request to Correct Notice of Recordation of Assignment Document Execution Date: 7/24/02 </p>	<p>2. Name and address of receiving party(ies): AstraZeneca UK Limited 15 Stanhope Gate London W1Y 6LN United Kingdom</p> <p>Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 09/398,610</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>B: Patent No(s.):</p> <p>5. Name/address of party to whom correspondence concerning document should be mailed: LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804</p>	
<p>6. Total number of applications/patents involved: 1</p> <p>7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.</p> <p>8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.</p>	
DO NOT USE THIS SPACE	
<p>9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i></p> <p>Laurie Butler Lawrence Reg. No. 46,593 Name of Person Signing</p> <p><i>Laurie Lawrence</i> <i>12/10/02</i> Signature Date</p>	
Total number of pages including coversheet, attachments and document: 3	

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12/17/2002 DMYRNE 00000208 09398610

01 FC:8021

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12/6/02
Date of Deposit

Cassandra Beepot
Signature

Cassandra Beepot
Typed Name of Person Signing Certificate

03/06/2002

Substitute Form PTO-1595
Attorney Docket No.: 10275-137001MAD
2-12-02
RECO

102003323

T

Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies):

Michael D. Edge

Additional name(s) attached? Yes No

3. Nature of conveyance:

Assignment
 Merger
 Security Agreement
 Change of Name
 Other:

Execution Date: 03/16/2000

2. Name and address of receiving party(ies):

AstraZeneca Limited
 UK
 15 Stanhope Gate
 London W1Y 6LN
 United Kingdom

Additional names/addresses attached? Yes No

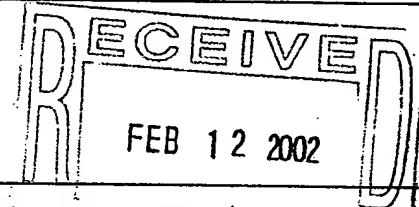
4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No(s):

09/398,610

B: Patent No(s):

Additional numbers attached? Yes No

5. Name/address of party to whom correspondence concerning document should be mailed:

LOUIS MYERS
 Fish & Richardson P.C.
 225 Franklin Street
 Boston, Massachusetts 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR §3.41): \$40

Enclosed
 Authorized to charge Deposit Account.

8. Deposit Account No.: 06-1050

Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

DO NOT USE THIS SPACE

9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Laurie Butler Lawrence

Reg. No. 46,593

Name of Person Signing

Signature

Date

Total number of pages including coversheet, attachments and document: 3

20371945.doc

03/05/2002 6TOH11 00000210 09398610

01 FC:581

40.00 OP

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1/17/02

Signature

Terri L Knox

Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, I, Michael D. Edge, of Macclesfield, Cheshire, United Kingdom, hereby assign to AstraZeneca UK Limited, a Great Britain corporation having a place of business at ~~15 Stanhope Gate, London W1Y 6LN, United Kingdom, and its successors and assigns~~ (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at CHESTER, U.K.,
this 24th day of JULY, 2002
Michael D. Edge _____ L.S.
Michael D. Edge

State of UNITED KINGDOM :
: ss.

County of CHESTER :

Before me this 24th day of July, 2002, personally appeared
Michael D. Edge, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

Robin Moore

Notary Public

My Commission Expires: at death

ROBIN GALBRAITH MOORE
NOTARY PUBLIC
Grosvenor Court, Chester
CH1 1HG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael D. Edge et al.
Serial No. : 09/398,610
Filed : September 17, 1999
Title : TRANSGENICALLY PRODUCED FUSION PROTEINS

Art Unit : 1632
Examiner : A. Beckerleg

U.S. Patent and Trademark Office
Assignment Division
Box Assignments—CG-4
1213 Jefferson Davis Highway
Suite 320
Washington, D.C. 20231

REQUEST TO CORRECT NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Applicants request that the assignee's name be corrected on the Notice of Recordation of Assignment Document for the above case. The assignee's name was misidentified on the originally filed Recordation Form Cover Sheet and should read --AstraZeneca UK Limited--. A copy of the Notice of Recordation of Assignment Document showing the desired change in red ink is attached for your convenience. Also included is a new Recordation Form Cover Sheet and Assignment indicating the correct assignee name.

As the mistake was made by us, enclosed is our check for the \$40.00 fee. Please apply any charges or credits to our Deposit Account No. 06-1050.

Respectfully submitted,

Date: 12/6/02

Fish & Richardson P.C.
225 Franklin Street
Boston, Massachusetts 02110-2804
(617) 542-5070 telephone
(617) 542-8906 facsimile

Laurie Lawrence
Laurie Butler Lawrence
Reg. No. 46,593

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December 6, 2002

Date of Deposit

Cassandra Beapot

Signature

Cassandra Beapot

Typed or Printed Name of Person Signing Certificate

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10275-137001

APRIL 25, 2002

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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0041

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 03/16/2000

ASSIGNEE: UK

ASTRAZENECA LIMITED
15 STANHOPE GATE
LONDON W1Y 6LN, UNITED KINGDOM

SERIAL NUMBER: 09398610

FILING DATE: 09/17/1999

PATENT NUMBER:

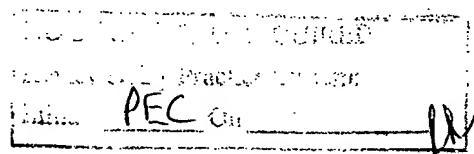
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RECORDATION DATE: 12/11/2002

REEL/FRAME: 013575/0931

NUMBER OF PAGES: 4

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE NAME OF THE ASSIGNEE FILED ON 02/12/02. RECORDED ON REEL 012624 FRAME 0041. ASSIGNEE HEREBY CONFIRMS THE ENTIRE INTEREST.

ASSIGNEE:

EDGE, MICHAEL D.
ASTRAZENECA UK LIMITED
15 STANHOPE GATE
LONDON W1Y 6LN, UNITED KINGDOM

DOC DATE: 07/24/2002

ASSIGNOR:

ASTRAZENECA UK LIMITED
15 STANHOPE GATE

LONDON W1Y 6LN, UNITED KINGDOM

DOC DATE: 07/24/2002

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15 STANHOPE GATE

12-18-2002

Substitute Form PTO-1595
 Attorney Docket No.: 10275-137001
 Client's Ref. No.: GTC-42



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<p>4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is:</p> <p>A. Patent Application No(s).: 09/398,610</p> <p>B: Patent No(s.):</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>5. Name/address of party to whom correspondence concerning document should be mailed: LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804</p>		<p>6. Total number of applications/patents involved: 1</p> <p>7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.</p> <p>8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.</p>
DO NOT USE THIS SPACE		
<p>9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i></p> <p>Laurie Butler Lawrence <u>Reg. No. 46,593</u> Name of Person Signing</p> <p> Signature</p> <p><u>12/18/02</u> Date</p>		
Total number of pages including coversheet, attachments and document: 3		

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12/6/02
 Date of Deposit

Cassandra Beepot
 Signature

Cassandra Beepot
 Typed Name of Person Signing Certificate

03/06/2002

Substitute Form PTO-1595
Attorney Docket No.: 10275-137001

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2-12-02

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<p>1. Name of conveying party(ies): Michael D. Edge Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Name and address of receiving party(ies): AstraZeneca Limited 15 Stanhope Gate London W1Y 6LN United Kingdom</p>	
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: <i>MPD 2-12-02</i> Execution Date: 03/16/2000</p>	<p>Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
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Total number of pages including coversheet, attachments and documents: 3	

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03/05/2002 6TOM11 00000210 09398610
01 FC:581

40.00 DP

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1/17/02
Date of Deposit

Signature

Terri L Knox
Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, I, Michael D. Edge, of Macclesfield, Cheshire, United Kingdom, hereby assign to AstraZeneca UK Limited, a Great Britain corporation having a place of business at 15 Stanhope Gate, London W1Y 6LN, United Kingdom, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled TRANSGENICALLY PRODUCED FUSION PROTEINS, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at CHESTER, U.K.,
this 24th day of JULY, 2002
Michael D. Edge L.S.
Michael D. Edge

State of UNITED KINGDOM :
: ss.

County of CHESTER :

Before me this 24th day of July, 2002, personally appeared
Michael D. Edge, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

Robin Moore

Notary Public

My Commission Expires: at death

ROBIN GALBRAITH MOORE

NOTARY PUBLIC

Grosvenor Court, Chester

CH1 1HG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael D. Edge et al.
Serial No. : 09/398,610
Filed : September 17, 1999
Title : TRANSGENICALLY PRODUCED FUSION PROTEINS

Art Unit : 1632
Examiner : A. Beckerleg

U.S. Patent and Trademark Office
Assignment Division
Box Assignments—CG-4
1213 Jefferson Davis Highway
Suite 320
Washington, D.C. 20231

REQUEST TO CORRECT NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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Respectfully submitted,

Date: 12/6/02

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225 Franklin Street
Boston, Massachusetts 02110-2804
(617) 542-5070 telephone
(617) 542-8906 facsimile

Laurie Lawrence
Laurie Butler Lawrence
Reg. No. 46,593

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December 6, 2002

Date of Deposit
Cassandra Beapot

Signature
Cassandra Beapot

Typed or Printed Name of Person Signing Certificate



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APRIL 25, 2002

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Arlington, VA 22202-3513
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LOUIS M. FISH
225 FRANKLIN STREET
BOSTON, MA 02110-2804



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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0041
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EDGE, MICHAEL D.

DOC DATE: 03/16/2000

ASSIGNEE: UK

ASTRAZENECA LIMITED
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LONDON W1Y 6LN, UNITED KINGDOM

SERIAL NUMBER: 09398610

FILING DATE: 09/17/1999
PATENT NUMBER:

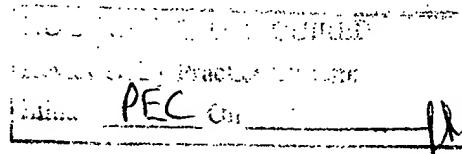
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RECORDATION DATE: 02/12/2002

REEL/FRAME: 012624/0047
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RYBAK, SUSANNA M.

DOC DATE: 04/06/2000

ASSIGNEE:

UNITED STATES OF AMERICA, AS
REPRESENTED BY THE SECRETARY OF
HEALTH AND HUMAN SERVICES
OFFICE OF TECHNOLOGY TRANSFER
6011 EXECUTIVE BLVD., SUITE 325
ROCKVILLE, MARYLAND 20852-3804

SERIAL NUMBER: 09398610

FILING DATE: 09/17/1999
PATENT NUMBER:

ISSUE DATE:

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SAUNDRA BALLINGER, EXAMINER
ASSIGNMENT DIVISION
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APR 29 2002

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03-06-2002Substitute Form PTO-1595
Attorney Docket No.: 10275-137001MRD
2-12-02

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102003322

Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): Dr. Susanna M. Rybak Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): United States of America, as represented by The Secretary of Health and Human Services Office of Technology Transfer Suite 325 6011 Executive Blvd. Rockville, MD 20852-3804
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 04/06/2000	Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 09/398,610	B: Patent No(s).: RECEIVED FEB 12 2002
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804	6. Total number of applications/patents involved: 1
	7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.
	8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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9. Statement and Signature: *To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Laurie Butler Lawrence
Reg. No. 46,593
Name of Person Signing

Date
1/17/02

Total number of pages including coversheet, attachments and document: 3

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03/06/2002 GTON11 00000211 09398610
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1/17/02

Signature

Terri L. Knox

Typed Name of Person Signing Certificate

Date of Deposit

ASSIGNMENT

For valuable consideration, I, Susanna M. Rybak, of, Frederick, MD, hereby assign to the government of the United States of America as represented by the Secretary of the Department of Health and Human Services, (hereinafter, THE GOVERNMENT) and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me this day, entitled **TRANSGENICALLY PRODUCED FUSION PROTEINS** filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at FCRDE
this 6 day of April, 2000

Susanna M. Rybak

L.S.

State of Maryland :
: ss.

County of Frederick :

Before me this 6 day of April, 2000, personally appeared
Susanna M. Rybak, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that she executed the same as her free act and deed for the
purposes therein contained.

Ann E. Rogers
Notary Public

My Commission Expires: 04/01/10

[Notary's Seal Here]

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LSB

JANUARY 31, 2002

PTAS

FISH & RICHARDSON P.C.
LOUIS MYERS
225 FRANKLIN STREET
BOSTON, MASSACHUSETTS 02110-2804

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RECORDATION DATE: 01/17/2002

REEL/FRAME: 012349/0127
NUMBER OF PAGES: 5

BRIEF: DOCUMENT RE-RECORDED TO CORRECT ERRORS CONTAINED IN PROPERTY
NUMBER 09398620 DOCUMENT PREVIOUSLY RECORDED ON REEL 010847
FRAME 0196.

ASSIGNOR:
POLLOCK, DAN

DOC DATE: 04/11/2001

ASSIGNOR:
ECHELAND, YANN

DOC DATE: 04/06/2001

ASSIGNOR:
MEADE, HARRY M.

DOC DATE: RECEIVED

ASSIGNEE:
GENZYME TRANSGENICS CORPORATION
175 CROSSING BOULEVARD
POST OFFICE BOX 9322
FRAMINGHAM, MASSACHUSETTS
01701-
9322

FEB 07 2002

FISH & RICHARDSON, PC.
BOSTON OFFICE

SERIAL NUMBER: 09398610
PATENT NUMBER:

FILING DATE: 09/17/1999
ISSUE DATE:

NO DOCKETING REQUIRED
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Initials <u>PEC</u> On <u>PL</u>

012349/0127 PAGE 2

SHARON LATIMER, EXAMINER
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<p>1. Name of conveying party(ies): Dan Pollack, Yann Echelard and Harry M. Meade Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>2. Name and address of receiving party(ies): Genzyme Transgenics Corporation 175 Crossing Boulevard Post Office Box 9322 Framingham, MA 01701-9322</p>	
<p>3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input checked="" type="checkbox"/> Other: Corrective of 010847/0198, Serial 09/398,620 Execution Date: 04/06/00; 04/11/00</p>	
<p>Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 09/398,610</p>	
<p>B. Patent No(s).: Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>5. Name/address of party to whom correspondence concerning document should be mailed: LOUIS MYERS Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804</p>	
<p>6. Total number of applications/patents involved: 1</p>	
<p>7. Total fee (37 CFR §3.41): \$40 <input type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.</p>	
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<p>Laurie Butler Lawrence Reg. No. 46,583 Name of Person Signing</p>	
<p><i>Laurie Butler Lawrence</i> Signature</p>	
<p><i>1/17/02</i> Date</p>	
<p>Total number of pages including coversheet, attachments and document:</p>	

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Attorney Docket No.: 10275-137001

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1. Name of conveying party(ies): Dan Pollock, Yann Echelard and Harry M. Meade Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Genzyme Transgenics, Inc. Five Mountain Road Framingham, MA 01701-9322
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: 04/06/00 and 04/11/00	Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Lauranne Butler Reg. No. P46,593 Name of Person Signing <u>Signature</u> <u>5/26/00</u> <u>Date</u>	
Total number of pages including coversheet, attachments and document: 4	

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ASSIGNMENT

For valuable consideration, we, Dan Pollock of Medway, MA; Yann Echelard of Jamaica Plain, MA; and Harry M. Meade of Newton, MA, hereby assign to Genzyme Transgenics, Inc., a Massachusetts corporation having a place of business at: Five Mountain Road, Framingham, MA 01701-9322, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled **TRANSGENICALLY PRODUCED FUSION PROTEINS**, filed September 17, 1999, and assigned U.S. Serial Number 09/398,610, and we authorize and request the attorneys appointed in said application to hereafter complete his assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at One Mountain Recreational
this 11 day of April, 2000
Dan Pollock
Dan Pollock

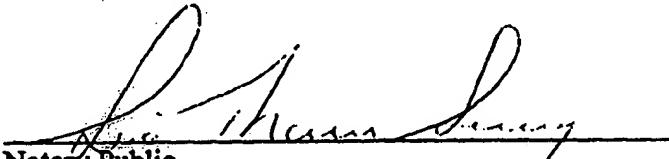
L.S.

State of Massachusetts:

: ss.

County of Middlesex :

Before me this 11 day of April, 2000, personally appeared
Dan Pollock, known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.


Notary Public

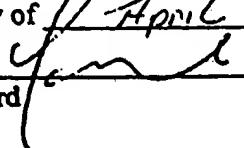
My Commission Expires:

USA MARIE SEAVEY
Notary Public

My Comm. Expires Dec. 13, 2002

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at 175 Broadway, Blvd., Framingham, Ma.
this 6 day of April, 2000


Yann Echelard

L.S.

State of Massachusetts:

: ss.

County of Middlesex :

Before me this 6 day of April, 2000, personally appeared Yann Echelard, known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.


Notary Public

My Commission Expires:

USA MARIE STEAVY

Notary Public

At Comm. Expires Dec. 13, 2007

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at One Mountain Road Franklin
this 11 day of April, 2000

Harry M. Meade
Harry M. Meade

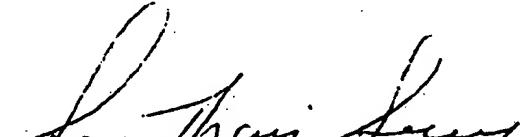
L.S.

State of Massachusetts :

: ss.

County of Franklin :

Before me this 11 day of April, 2000, personally appeared Harry M. Meade, known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.


Notary Public

My Commission Expires:

USA MARIE STEAVY

Notary Public

At Comm. Expires Dec. 13, 2007

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